Official Notice No. 14-2013
Linnwood Purification Plant
WP-316: Linnwood Ozone By-Pass Valves
March 15, 2013

ADDENDUM NO. 3

This Addendum consists of the following **CHANGES TO THE BID DOCUMENTS FOR OFFICIAL NOTICE 14-2013**:

1. **SPECIFIC OFFICIAL NOTICE NO. 14-2013:**

   REMOVE THE FOLLOWING PARAGRAPH:

   Sealed bids will be opened on Tuesday, March 19, 2013 at 10:30 AM CST for the WP-316: LINNWOOD OZONE BY-PASS VALVES located at the LINNWOOD WATER PURIFICATION PLANT, 3000 NORTH LINCOLN MEMORIAL DRIVE, MILWAUKEE, WI 53211

   REPLACE WITH THE FOLLOWING PARAGRAPH:

   Sealed bids will be opened on Tuesday, March 26, 2013 at 10:30 AM CST for the WP-316: LINNWOOD OZONE BY-PASS VALVES located at the LINNWOOD WATER PURIFICATION PLANT, 3000 NORTH LINCOLN MEMORIAL DRIVE, MILWAUKEE, WI 53211

2. **BID DOCUMENTS FOR LINNWOOD PURIFICATION PLANT**
   WP-316: LINNWOOD OZONE BY PASS VALVES

   On Page 1

   REMOVE THE FOLLOWING PHRASE:

   No later than Tuesday March 19, 2013 at 10:30 A.M.

   REPLACE WITH THE FOLLOWING PHRASE:

   No later than Tuesday March 26, 2013 at 10:30 A.M.

On Page 2

REMOVE THE FOLLOWING PARAGRAPH:

NOTE: BIDS WILL BE OPENED AND PUBLICLY READ AT THE OFFICE OF THE COMMISSIONER OF PUBLIC WORK ON TUESDAY, MARCH 19, 2013 AT 10:30 A.M.

REPLACE WITH THE FOLLOWING PARAGRAPH:

NOTE: BIDS WILL BE OPENED AND PUBLICLY READ AT THE OFFICE OF THE COMMISSIONER OF PUBLIC WORK ON TUESDAY, MARCH 26, 2013 AT 10:30 A.M.

On Page 5

REMOVE THE FOLLOWING PHRASE:

10:30 A.M. TUESDAY, MARCH 19, 2013

REPLACE WITH THE FOLLOWING PHRASE:

10:30 A.M. TUESDAY, MARCH 26, 2013

3. **PLEASE SEE THE RESPONSES BELOW TO THE REQUEST FOR INFORMATION SUBMITTED:**

QUESTION:

- Can you tell me what the grade elevations are? There are centerline elevations given on the drawings but we cannot find a grade elevation.

RESPONSE:

- Existing grade elevations at the proposed locations of the new valves can be found on drawing WP-316-05. Other grades can be found from the reference drawings for the project.

QUESTION:

- Please confirm if the epoxy-retained seat-in-body butterfly design is truly required and the hardware-retained design NOT allowed per the specifications as currently written

RESPONSE:

- Specification sections 15100, 2.07, A, 4 and 15100, 2.08, A, 4 discuss the requirements for the valve seat on the butterfly valves. "Seats shall be retained by mechanical means without retaining rings, segments, screws or hardware of any kind in the flow stream." There is no mention of an epoxy retained seat.

QUESTION:

- Although designed for positioning service, what is the total minimum cycle time required for the electric motor actuator if running continuously from full-closed to full-open or vice-versa?

RESPONSE:

- The minimum cycle time to move the valve from full-closed to full-open or vice-versa should be 300 seconds or less.

QUESTION:

- What is the maximum differential pressure for all butterfly valve types at each specific location on this project

RESPONSE:

- The maximum differential pressure for all butterfly valves for this project is 35 ft of head or 15 psi.

QUESTION:

- If meeting or exceeding all requirements set forth by the specifications, can the Auma Series SA electric motor actuator be listed as an acceptable manufacturer?

RESPONSE:

- This will be determined during the submittal process.

QUESTION:

- If design of electric motor actuator does not require a motor heater, is one truly required?

RESPONSE:

- This will be determined during the submittal process.

QUESTION:

- If required, please confirm voltage for motor heater.

RESPONSE:

- This will be determined during the submittal process.

QUESTION:

- Can limit switch compartment heater be 24VDC?

RESPONSE:

- This will be determined during the submittal procress.

QUESTION:

- Specification section 01010 sub part 1.04 states that the Contractor is responsible for lead paint. Does MWW anticipate lead paint anywhere on this project?

RESPONSE:

- The presence of lead paint is unknown at this time as the original (1937) Specifications indicated a bitumastic coating. Bids shall be prepared with the expectation that no extras or the safe removal of any existing piping and valve parts.

QUESTION:

- We have contacted some concrete pressure pipe manufacturers and they have to design the sections of pipe in order to give us information for installation (i.e. weights, lengths, etc.) and they don't believe they will be able to give us this information in time for bid date so we would like to request and extension on the bid date by one week. Please advise if this is acceptable.

RESPONSE:

- The complete design of the concrete piping sections does not need to be submitted by the bid date. The bid date has been moved back one week to accommodate coordination with concrete pipe manufactures and the added scope of pipe inspection.

QUESTION:

- On plan page 03 and 04 the roof of the valve doghouse is to be removed and replaced. How is that roof to be waterproofed during reinstallation?

RESPONSE:

- A membrane shall be installed between the angle iron and where the roof slab is reattached to protect that area. The membrane shall be composed of a compressible waterproofing roofing material.

QUESTION:

- Page 03 and 04 do not note any concrete pipe encasement or waterproofing. However, via the reference drawings from 7-1-36 there appears to be a grout slab with a water proofing membrane extend up and over the existing raw water pipe encasement. Is that to be replaced and please provide details on type of membrane, adhesion, etc… Also shown is a reinforced concrete encasement of the exterior steel piping. Does this pipe get re-encased? If so, please provide details regarding reinforcement, concrete specs, etc

RESPONSE:

- No waterproofing of the piping is required. The concrete encasement is to be restored for newly installed steel piping. Concrete can be of a standard mix and should follow Specification Section 03301.

QUESTION:

- The reference drawings from 7-1-36 show a welded T-flange connection for the raw water piping. Is it the intent to remove that T-flange from the existing tee fitting and make a butt weld or can you please provide your connection detail for this connection.

RESPONSE:

- This is correct. The welded tee flange is to be removed and the new 84" flange adapter is to be connected to the existing tee fitting. A butt weld would be an acceptable method of making this connection.

QUESTION:

- All drawings show the existing raw water lines less than one foot away from the existing wall. Is it the intent to only field weld the flange adaptors from inside the pipe?

RESPONSE:

- Engineering does not comment on contractor's method of construction. Contractor shall perform all air treatment procedures as required and in accordance with OSHA regulations.

QUESTION:

- It is assumed that MWW staff will shut down and drain the system to the best of their abilities. First, will MWW be able to fully drain the pipelines prior to disassembly or will the contractor need to be pump down and drain? If so, how much? Is it expected to have a 100% shut off? If not how much water should we assume will need to be handled by the contractor during construction, per pipeline.

RESPONSE:

- MWW will be able to drain all the pipelines so that the valves can be installed. It is not expected that the contractor will be required to pump down and drain the lines. A close to 100% shutoff is expected with leakage of single gallons per minute.

QUESTION:

- The specifications call for a hydrostatic test of the piping to 20% above normal operating pressure. Please detail who will handle the filling and venting of the pipeline, limits of each test and who will perform the test. Testing against old valves and pipe will most likely be problematic and a not successful pressure test will not be achieved.

RESPONSE:

- This section is not applicable to this project. Hydrostatic testing will not be done on piping installed and references to such may be disregarded.

QUESTION:

- The valves are to warranted for 5 years but the job warranty is for 2 years. If a valve fails in greater than 2 years and less than 5 years from completion is the contractor responsible for the removal and reinstall?

RESPONSE:

- Removal and reinstallation of a valve after the 2 year warranty period has expired will not be the responsibility of the contractor under this contract.

QUESTION:

- Is MWW aware of any lead paint or other hazardous materials within the jobsite work area? If not, and encountered would that remediation work be considered extra?

RESPONSE:

- The presence of lead paint is unknown at this time as the original (1937) Specifications indicated a bitumastic coating. Bids shall be prepared with the expectation that no extras or the safe removal of any existing piping and valve parts. Refer to Specification Section 01010, Part 1, Section 1.04 for lead paint removal.

QUESTION:

- Is it the intent of the contract to have the inside and outside of the steel piping cleaned, blasted and coated? Please detail the scope of this work including limits and specifications.

RESPONSE:

- Refer to Specification Section 15100 for requirements on cleaning and handling steel pipe.

QUESTION:

- During the exterior underground work it is expected that we will encounter a large amount of groundwater due to elevation and previous granular fills. Please detail the allowable discharge points for this pumped groundwater.

RESPONSE:

- Groundwater which is encountered during construction can be directed to the city sewer system via inlets that are on the Linnwood grounds. Proper Erosion control procedures should be followed with regards to these inlets. Refer to Specification Section 02200 and Attachment "H" for excavation and erosion control procedures and guidelines.

QUESTION:

- Is contractor supplied compaction testing required for the pipe sub base and backfilling operations? If so, how often?

RESPONSE:

- Refer to Specification Section 02200, Part 3, Section 3.03 for requirements on fill and embankments including subbase and backfill. Backfill materials shall be deposited in layers not to exceed 8 inches in uncompacted thickness**.**

QUESTION:

- Is it the responsibility of the contractor to protect the pump room from weather during the period that the valve vaults are open? Is there any detail on that enclosure? Is there any scope for temporary fencing for the exterior work?

RESPONSE:

- Refer to Specification Section 01500 for requirements on job site security. The water treatment plant will be in continuous operation during this contract and is a secure facility. The job site should be kept maintained in a manner that is in accordance with OSHA regulations.

QUESTION:

- What elevation, material type and pressure is the 42" wash water line at? Will this line be active during construction?

RESPONSE:

- The 42" diameter wash water line is a steel pipeline located with a centerline diameter of +4.0 ft where it crosses over the 90" diameter PCCP pipe and a centerline diameter of -9.1 ft where it goes under the 120" diameter 120" PCCP pipe. The pressure in this line is approximately 25 to 30 psi and assumed to be in service during construction.

QUESTION:

- There are (2), approximately 120" diameter pipes shown running east west. What are those and at what elevation?

RESPONSE:

- The two 120" diameter pipes are the intake tunnel and raw water conduit. These conduits have a centerline elevation which is lower than -30 ft.

QUESTION:

- To install the 72" valve on the existing 90" PCCP pipe there is a 8" water main and 6" gas main that cross the proposed excavation. What elevation are those located at? Is it intent to have the contractor relocate those utilities if necessary? If so, at who's expense?

RESPONSE:

- The 8" water line is located approximately 6.5 ft below grade to center line of pipe (elevation of +3.0 ft) and the 6" gas main is assumed to be 3.5 – 4.0 ft below grade to top of pipe (elevation of +6.0 ft). Both of these lines are active and serve the Linnwood Treatment Plant. The intent is to have these lines remain in service during construction. Any alterations to these lines will be at the contractor's expense and cannot be done without consulting MWW engineering and plants staff.

QUESTION:

- Are there any further details available regarding the PCCP pipe; primarily a laying schedule, pipe specification and joint detail?

RESPONSE:

- Refer to reference drawing SB-97-18-D18 for laying schedule of existing PCCP Pipe. Refer to Specification Section 02612 for specification for new PCCP pipe. Laying schedule and joint details for the pipe to be installed are to be developed by PCCP manufacturer.

QUESTION:

- Is it allowable to step the excavations or is it the intent for the contractor to design and provide a shoring system? Stepping will most likely not be possible without exposing other utilities.

RESPONSE:

- Engineering does not comment on contractor's method of construction. Refer to Specification Section 02200 for excavation guidelines and procedures. Requirements for shoring can be found in Specification Section 02200, Part 3 Section 3.02.F